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DMI RECOMMENDATION INDEX (TSR QUICK REFERENCE SHEET) Page 1

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

	EQUIPMENT CONDITION	NAD RECOMMENDATIONS	CODE
4. *	No touch-coded oxygen control knob	Install touch-coded oxygen flow control knob.	DII

* Denotes a hazard that is substantially diminished by anesthesia machines complying with current applicable standards for components used in anesthesia systems.

CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

DMI RECOMMENDATION INDEX (TSR QUICK REFERENCE SHEET) Page 2

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

	EQUIPMENT CONDITION	DMI RECOMMENDATIONS	CODE
14.	CO2/Agent monitor exhaust port is not properly connected to waste gas disposal system.	Connect monitor exhaust port to waste gas disposal system.	B
16.*	Vaporizer installed downstream from fresh gas outlet.	Remove vaporizer from downstream position and replace fresh gas hose.	D

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CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

DMI RECOMMENDATION INDEX (TSR QUICK REFERENCE SHEET) Page 3

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION		DMI RECOMMENDATIONS	CODE
19. *	No 19 mm or 30 mm hose terminals for scavenger hose connections	Replace obsolete hose connections on waste gas disposal system	DI
21.	No ventilator pressure limit control.	Install ventilator pressure limit control on "F" style bellows.	B
25.	PEEP device on 22 mm terminal of expiratory valve.	**Issue department alert. Remove PEEP device. Install integrated absorber PEEP with bypass valve.**	D
27.	Ventilator bellows has a PEEP valve.	Remove the ventilator bellows PEEP valve and convert to integrated absorber PEEP valve with bypass valve.	B

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CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

DMI RECOMMENDATION INDEX (TSR QUICK REFERENCE SHEET) Page 4

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

	EQUIPMENT CONDITION	DMI RECOMMENDATIONS	CODE
30.	Anesthesia machine is equipped with inhalation anesthesia vaporizers without an agent monitor in the breathing system.	Install an agent monitor, a Vitalert 3000 series patient monitor, or a Vamos patient monitor. (Use MRI compatible monitor where applicable)	B
31.	Anesthesia machine is equuipped with a Tec 6 Desflurane or Dräger Sevoflurane vaporizer, and the 4600 three agent analyzer is indicating another agent when Sevoflurane or Desflurane are selected.	Upgrade three gas agent analyzer to a 4610 five gas analyzer, or remove the Desflurane, and, or the Sevoflurane vaporizer.	D
33.	No recommendations	No recommendations	A

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CERTIFICATION LEVEL

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B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

FAILURE CODES INDEX

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

Cond#	Equipment Condition	Recommended Corrections	Tests Affected	Code
34	**ELECTRICAL SAFETY**			
34.1	System fails electrical safety	Repair or replace items as required	Ground Continuity, Circuit Isolation, Outlets &Aux., Chassis leakage	D
35	**SELF-DIAGNOSTIC**			
35.1	System fails self diagnostic	Repair or replace items as required	Electronic Assemblies Processor, Video, Power Supply	D
36	**BATTERY**			
36.1	Battery Backup malfunction	Replace battery(s)	Battery Circuit, Batteries	BC
37	**SCAVENGER**			
37.1	Scavenger malfunction	Repair or replace items as required	Scavenger	D
38	**BREATHING SYSTEM**			
38.1	Fresh Gas leak beyond DMI specification	Repair or replace items as required	Fresh Gas Delivery System	D
38.2	Absorber Component(s) malfunction	Repair or replace items as required	Breathing System Components	D
39	**MANUAL SPHYGMOMANOMETER**			
39.1	Sphygmomanometer malfunction	Repair or replace items as required	Manual Sphygmomanometer	BC
40	**VAPORIZER INTERLOCK**			
40.1	Vaporizer Interlock malfunction	Repair or replace items as required	Vapor Interlock System	D

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D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

Cond#	Equipment Condition	Recommended Corrections	Tests Affected	Code
41	**YOKES & GAUGES**			
41.1	Yoke(s), Check Valve(s), or Gauge(s) malfunction	Repair or replace items as required	Yokes, Check Valves, Gauges	BC
42	**HIGH PRESSURE REGULATOR(S)**			
42.1	High Pressure Regulator(s) malfunction	Repair or replace items as required	Oxygen, Nitrous Oxide, Air, Carbon Dioxide,Nitrogen, Helium, and Heliox Regulators	BC
43	**HIGH PRESSURE CIRCUIT**			
43.1	High Pressure Leak beyond DMI specification	Repair or replace items as required	Oxygen, Nitrous Oxide, Air, Carbon Dioxide, Nitrogen, Helium, and Heliox High Pressure Circuit(s)	BC
44	**OXYGEN FAILURE PROTECTION**			
44.1	Oxygen failure protection device malfunction	Repair or replace items as required	Nitrous Oxide, Air, Carbon Dioxide, Nitrogen, Helium, and Heliox O.F.P.D.	D

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ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

Cond#	Equipment Condition	Recommended Corrections	Tests Affected	Code
45	**FLOWMETERS**			
45.1	Flowmeter(s) malfunction	Repair or replace items as required	Oxygen, NitrousOxide, Air, Carbon Dioxide, Nitrogen, Helium, Heliox, and AUX O2 Flowmeter(s)	D
46	**OXYGEN ANALYZER**			
46.1	Non-DMI qualified O2 sensor in use	Install DMI qualified oxygen sensor	O2Med	BC
46.2	O2 analyzer malfunction	Remove/return to DMI for repair/exchange	O2Med,	D
47	**OXYGEN CONCENTRATION**			
47.1	Oxygen concentration(s) beyond DMI specifications	Repair or replace items as required	O2 & N2O, Air, He, O2-He, N2, or CO2 Concentration(s)	D
48	**OXYGEN RATIO**			
48.1	Oxygen Ratio beyond DMI specifications	Repair or replace items as required	ORMC, ORC, ORC w/BYPASS	D
49	**PRESSURE MONITOR**			
49.1	Pressure monitor malfunction	Repair or replace items as required	Baromed	D
50	**VENTILATOR**			
50.1	Ventilator malfunction	Repair or replace items as required	Insp & Exp cycling, Drive gas leakage, Volume delivery, Pressure control, Pressure relief	D

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ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

Cond#	Equipment Condition	Recommended Corrections	Tests Affected	Code
51	**PEEP DEVICE**			
51.1	PEEP device malfunction	Repair or replace items as required	Ventilator Bellows PEEP, Absorber PEEP	D
52	**OXYGEN FLUSH**			
52.1	O2 Flush malfunction	Repair or replace items as required	O2 Flush concentration, Flow rates	D
53	**O2 GAS SUPPLIES**			
53.1	O2 cylinder unavailable	Temporarily for testing: Install O2 reserve cylinder	O2 High Pressure Leak, O2 High Pressure Regulator	BCII
54	**N2O - GAS SUPPLIES**			
54.1	N2O cylinder unavailable	Temporarily for testing: Install reserve cylinder	N2O High Pressure Leak, N2O High Pressure Regulator	BCII
54.2	N2O supply unavailable	Temporarily for testing: Install pipeline hose/reserve cylinder	N20, OFPD, O2 & N2O % Concentration, ORMC, ORC, ORC w/Bypass	BCII

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ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

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Cond#	Equipment Condition	Recommended Corrections	Tests Affected	Code
55	**AIR GAS SUPPLIES**			
55.1	AIR cylinder unavailable	Temporarily for testing: Install reserve cylinder	AIR High Pressure Leak, AIR High Pressure Regulator	BCII
55.2	AIR supply unavailable	Temporarily for testing: Install pipeline hose/reserve cylinder	AIR OFPD, O2 & AIR % Concentration	BCII
56	**37 - CO2 GAS SUPPLIES**			
56.1	CO2 supply unavailable	Temporarily for testing: Install E size cylinder	CO2 High Pressure Leak, CO2 High Pressure Regulator, CO2 OFPD, O2 & CO2 % Concentration	BCI,II
57	**N2 GAS SUPPLIES**			
57.1	N2 supply unavailable	Temporarily for testing: Install E size cylinder	N2 High Pressure Leak, N2 High Pressure Regulator, N2 OFPD, O2 & N2 % Concentration	BCII
58	**HE GAS SUPPLIES**			
58.1	HE supply unavailable	Temporarily for testing: Install E size cylinder	HE High Pressure Leak, HE High Pressure Regulator, HE OFPD, O2 & HE % Concentration	BCII
59	**O2+HE GAS SUPPLIES**			
59.1	O2+HE supply unavailable	Temporarily for testing: Install E size cylinder	O2+HE High Pressure Leak, O2+HE High Pressure Regulator, O2+HE OFPD, O2+HE % Concentration	BCII

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ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

Cond#	Equipment Condition	Recommended Corrections	Tests Affected	Code
60	**HALOTHANE VAPORIZER**			
60.1	Halothane agent is unavailable to test	Add agent or remove vaporizer	Halothane Vaporizer	BC
60.2	Halothane output concentration is high, low, nonfunctional, or Soil degree 1	Remove/return to DMI for repair/exchange	Halothane Vaporizer	D
61	**ENFLURANE VAPORIZER**			
61.1	Enflurane agent is unavailable to test	Add agent or remove vaporizer	Enflurane Vaporizer	BC
61.2	Enflurane output concentration is high, low, or nonfunctional	Remove/return to DMI for repair/exchange	Enflurane Vaporizer	D
62	**ISOFLURANE VAPORIZER**			
62.1	Isoflurane agent is unavailable to test	Add agent or remove vaporizer	Isoflurane Vaporizer	BC
62.2	Output concentration is high, low, or nonfunctional	Remove/return to DMI for repair/exchange	Isoflurane Vaporizer	D
63	**SEVOFLURANE VAPORIZER**			
63.1	Sevoflurane agent is unavailable to test	Add agent or remove vaporizer	Sevoflurane Vaporizer	BC
63.2	Sevoflurane output concentration is high, low, or nonfunctional	Remove, customer to contact Abbott	Sevoflurane Vaporizer	D

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ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

Cond#	Equipment Condition	Recommended Corrections	Tests Affected	Code
64	**DESFLURANE VAPORIZER**			
64.1	Desflurane agent is unavailable to test	Add agent or remove vaporizer	Desflurane Vaporizer	BC
64.2	Desflurane output concentration is high, low, or nonfunctional	Remove, customer to contact Ohmeda	Desflurane Vaporizer	D
65	**VOLUME MONITOR**			
65.1	Volume values out of DMI specification	Remove/return to DMI for repair/exchange	Flow Sensor / Spiromed	DI
65.2	Volume sensor leaks beyond DMI specification	Remove/return to DMI for repair/exchange	Flow Sensor / Spiromed	DI
65.3	Breathing system not configured to accept volume monitoring	Install absorber sys capable of utilizing volume sensor	Volume Monitor	BCI
66	**PROCESSOR**			
66.1	Alternate processor failure	Remove/return to DMI for repair/exchange	NM-4 Self Diagnostic	BC
66.2	Processor is nonfunctional	Remove/return to DMI for repair/exchange	Processor	D
67	**POWER SUPPLY**			
67.1	Power supply malfunction	Repair or replace items as required	Power Supply Circuit	D
67.2	Alternate power supply failure	Remove/return to DMI for repair/exchange	NM-4 Self Diagnostic	BC
68	**INTEGRATED CO2/AGENT ANALYZER**			
68.1	CO2 or integrated agent analyzer does not meet specifications	Repair or replace items as required	CO2 or Agent Analyzer	DI
69	**INTEGRATED PULSE OXIMETER**			
69.1	Integrated pulse oximeter does not meet DMI specifications	Repair or replace item as required	Pulse Oximeter	DI
70	**INTEGRATED BLOOD PRESSURE MONITOR**			
70.1	Integrated blood pressure monitor does not meet DMI specifications	Repair or replace item as required	Blood Pressure Monitor	DI

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CERTIFICATION LEVEL

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ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

Reference Chart for Certification Based on Equipment Status

4 - DII
11 - DI
14 - B
16 - D
18 - D
19 - DI
21 - B
25 - D
27 - B
30 - B
31 - D
33 - A

Reference Chart for Certification Based on Equipment Status

34.1 - D

35.1 - D

36.1 - BC

37.1 - D

38.1 - D

38.2 - D

39.1 - BC

40.1 - D

41.1 - BC

42.1 - BC

43.1 - BC

44.1 - D

45.1 - D

46.1 - BC

46.2 - D

47.1 - D

48.1 - BCII

49.1 - D

50.1 - D

51.1 - D

52.1 - D

53.1 - BCII

54.1 - BCII

54.2 - BCII

55.1 - BCII

55.2 - BCII

56.1 - BCI,II

57.1 - BCII

58.1 - BCII

59.1 - BCII

60.1 - BC

60.2 - D

61.1 - BC

61.2 - D

62.1 - BC

62.2 - D

63.1 - BC

63.2 - D

64.1 - BC

64.2 - D

65.1 - DI

65.2 - DI

65.3 - DI

66.1 - BC

66.2 - D

67.1 - D

67.2 - BC

68.1 - DI

69.1 - DI

70.1 - DI

1.0 NARKOMED 3

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
14. CO2/Agent monitor exhaust port is not properly connected to waste gas disposal system.	B	Connect monitor exhaust port to waste gas disposal system.	4108114 Adapter 19mm M x F ML08007 Tube 1/4 OD x 48" 4109097 Luer connector F w/barb 4109098 Luer connector M w/barb
16.* Vaporizer installed downstream from fresh gas outlet.	D	No Certification unless condition is corrected by removing vaporizer and replacing fresh gas hose.	4108577 HOSE ASM-FRESH GAS
18.* No waste gas disposal system.	D	Issue department alert. Recommend installation of an appropriate scavenger system. No Certification unless condition is corrected by installing the appropriate scavenger system.	4106161 SCAVENGER SYSTEM-A/C 4107624 SCAVENGER-OPEN RESERVOIR
21. No ventilator pressure limit control.	B	Install ventilator pressure limit control on "F" style bellows.	4109664-S01 Kit, Bellows with PLC
25. PEEP device on 22mm terminal of expiratory valve.	D	Issue a department alert. Explain to user the danger of attaching device like this to 22mm breathing terminals. Remove PEEP device. Install integrated absorber PEEP with bypass. No certification unless expiratory mounted PEEP device is removed.	S4111527 Kit, PEEP valve w/Bypass

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CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

1.0 NARKOMED 3

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
27. Ventilator bellows assembly has a PEEP valve assembly.	B	Remove ventilator bellows PEEP valve and convert to absorber PEEP valve with bypass.	S4111527 Kit, PEEP valve w/ Bypass
30. Anesthesia machine is equipped with inhalation anesthesia vaporizers without an agent monitor in the breathing system.	B	Install an agent monitor, a Vitalert 3000 Series patient monitor, or Vamos patient monitor.	4112020-001 Vitalert 3100 4112020-002 Vitalert 3000 4112020-003 Vitalert 3200 4112020-004 Vitalert 3300 6870750- Vamos monitor
31. Anesthesia machine is equipped with a TEC 6 Desflurane or 19.1 Sevoflurane vaporizer, and the 4600 three agent monitor is indicating another agent when Sevoflurane, or Desflurane are selected.	D	No certification unless condition is corrected by: Installing a 4610 five gas analyzer, or, removing the Desflurane and, or Sevoflurane vaporizer and install a cover block. Or, replace the Desflurane and, or Sevoflurane with H, E or I agent 19.1 vaporizers.	S010218 Kit, Anes Agent Mon update-NM3 4115884 VAPOR-HAL w/P.I.S.S. & EXCL 4115888 VAPOR-ENF w/P.I.S.S. & EXCL 4115892 VAPOR-ISO w/P.I.S.S. & EXCL 4115886 VAPOR-HAL w/EXCL 4115890 VAPOR-ENF w/EXCL 4115893 VAPOR-ISO w/EXCL 4112699 Cover Block
33. No recommendations	A	No recommendations	

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CERTIFICATION LEVEL

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C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

2.0 NARKOMED 2B

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
14. CO2/Agent monitor exhaust port is not properly connected to waste gas disposal system.	B	Connect monitor exhaust port to waste gas disposal system.	4108114 Adapter 19mm M x F ML08007 Tube 1/4 OD x 48" 4109097 Luer connector F w/barb 4109098 Luer connector M w/barb
16.* Vaporizer installed downstream from fresh gas outlet.	D	No Certification unless condition is corrected by removing vaporizer and replacing fresh gas hose.	4108577 HOSE ASM-FRESH GAS
18.* No waste gas disposal system.	D	Issue department alert. Recommend installation of an appropriate scavenger system. No Certification unless condition is corrected by installing the appropriate scavenger system.	4106161 SCAVENGER SYSTEM-A/C 4107624 SCAVENGER-OPEN RESERVOIR
21. No ventilator pressure limit control.	B	Install ventilator pressure limit control.	4109664-S01 Kit, Bellows with PLC
25. PEEP device on 22mm terminal of expiratory valve.	D	Issue a departmental alert. Explain to user the danger of attaching device like this to 22mm breathing terminals. Remove PEEP device. Install integrated absorber PEEP with bypass valve. No certification unless expiratory valve mounted PEEP device is removed.	S4111527 Kit, PEEP valve w/bypass
27. Ventilator bellows assembly has a PEEP valve assembly.	B	Remove ventilator bellows PEEP valve and convert to absorber PEEP valve with bypass.	S4111527 Kit, PEEP valve w/bypass

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CERTIFICATION LEVEL

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B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

2.0 NARKOMED 2B

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
30. Anesthesia machine is equipped with inhalation anesthesia vaporizers without an agent monitor in the breathing system.	B	Install an agent monitor, a Vitalert 3000 series patient monitor, or a Vamos patient monitor.	4112020-001 Vitalert 3100 4112020-002 Vitalert 3000 4112020-003 Vitalert 3200 4112020-004 Vitalert 3300 6870750- Vamos monitor
33. No recommendations	A	No Recommendations	

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CERTIFICATION LEVEL

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D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

3.0 NARKOMED 4

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
14. CO2/Agent monitor exhaust port is not properly connected to waste gas disposal system.	B	Connect monitor exhaust port to waste gas disposal system.	4108114 Adapter 19mm M x F ML08007 Tube 1/4 OD x 48" 4109097 Luer connector F w/barb 4109098 Luer connector M w/barb
16.* Vaporizer installed downstream from fresh gas outlet.	D	No Certification unless condition is corrected by removing vaporizer and replacing fresh gas hose.	4108577 HOSE ASM-FRESH GAS
18.* No waste gas disposal system.	D	Issue department alert. Recommend installation of an appropriate scavenger system. No Certification unless condition is corrected by installing the appropriate scavenger system.	4106161 SCAVENGER SYSTEM-A/C 4107624 SCAVENGER-OPEN RESERVOIR
21. No ventilator pressure limit control.	B	Install ventilator pressure limit control on "F" bellows.	4109664-S01 Kit, Bellows with PLC
25. PEEP device on 22mm terminal of expiratory valve.	D	Issue a department alert. Explain to user the danger of attaching device like this to 22mm breathing terminals. Remove PEEP device. Install integrated absorber peep with bypass valve. No certification unless expiratory valve mounted PEEP device is removed.	S4111527 Kit, PEEP valve w/bypass
27. Ventilator bellows assembly has a PEEP valve assembly.	B	Remove ventilator bellows PEEP valve and convert to absorber PEEP valve with bypass.	S4111527 Kit, PEEP Valve w/Bypass

* Denotes a hazard that is substantially diminished by anesthesia machines complying with current applicable standards for components used in anesthesia systems.

CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

3.0 NARKOMED 4

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
31. Anesthesia machine is equipped with a TEC 6 Desflurane or Dräger Sevoflurane vaporizer, and the 4600 three agent analyzer is indicating another agent when Sevoflurane, or Desflurane are selected.	D	No certification unless condition is corrected by: Installing a 4610 five gas analyzer, or, removing the Desflurane and, or Sevoflurane vaporizer and install a cover block. Or, replace the Desflurane and, or Sevoflurane with H, E or I agent 19.1 vaporizers.	S010217 Kit, Anes Agent Mon update-NM4 4115884 VAPOR-HAL w/P.I.S.S. & EXCL 4115888 VAPOR-ENF w/P.I.S.S. & EXCL 4115892 VAPOR-ISO w/P.I.S.S. & EXCL 4115886 VAPOR-HAL w/EXCL 4115890 VAPOR-ENF w/EXCL 4115893 VAPOR-ISO w/EXCL 4112699 Cover Block
33. No recommendations	A	No recommendations	

* Denotes a hazard that is substantially diminished by anesthesia machines complying with current applicable standards for components used in anesthesia systems.

CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

4.0 NARKOMED 2C

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
14. CO2/Agent monitor exhaust port is not properly connected to waste gas disposal system.	B	Connect monitor exhaust port to waste gas disposal system.	4108114 Adapter 19mm M x F ML08007 Tube 1/4 OD x 48" 4109097 Luer connector F w/barb 4109098 Luer connector M w/barb
16.* Vaporizer installed downstream from fresh gas outlet.	D	No Certification unless condition is corrected by removing vaporizer and replacing fresh gas hose.	4108577 HOSE ASM-FRESH GAS
18.* No waste gas disposal system.	D	Issue department alert. Recommend installation of appropriate scavenger system. No Certification unless condition is corrected by installing the appropriate scavenger system.	4106161 SCAVENGER SYSTEM-A/C 4107624 SCAVENGER-OPEN RESERVOIR
25. PEEP device on 22mm terminal of expiratory valve.	D	Issue a department alert. Explain to user the danger of attaching device like this to 22mm breathing terminals. Remove PEEP device. Install integrated absorber PEEP with bypass. No certification unless expiratory valve mounted PEEP device is removed.	S4111527 Kit, PEEP Valve w/bypass
27. Ventilator bellows assembly has a PEEP valve assembly.	B	Remove ventilator bellows PEEP valve and convert to absorber PEEP valve with bypass.	S4111527 Kit, PEEP Valve w/Bypass

* Denotes a hazard that is substantially diminished by anesthesia machines complying with current applicable standards for components used in anesthesia systems.

CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

4.0 NARKOMED 2C

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
30. Anesthesia machine is equipped with inhalation anesthesia vaporizers without an agent monitor in the breathing system.	B	Install an agent monitor, a Vitalert 3000 series patient monitor, or a Vamos patient monitor.	4112020-001 Vitalert 3100 4112020-002 Vitalert 3000 4112020-003 Vitalert 3200 4112020-004 Vitalert 3300 6870750- Vamos monitor
33. No recommendations	A	No recommendations	

* Denotes a hazard that is substantially diminished by anesthesia machines complying with current applicable standards for components used in anesthesia systems.

CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

5.0 NARKOMED GS

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
14. CO2/Agent monitor exhaust port is not properly connected to waste gas disposal system.	B	Connect monitor exhaust port to waste gas disposal system.	4108114 Adapter 19mm M x F ML08007 Tube 1/4 OD x 48" 4109097 Luer connector F w/barb 4109098 Luer connector M w/barb
16.* Vaporizer installed downstream from fresh gas outlet.	D	No Certification unless condition is corrected by removing vaporizer and replacing fresh gas hose.	4108577 HOSE ASM-FRESH GAS
18.* No waste gas disposal system.	D	Issue department alert. Recommend installation of appropriate scavenger system. No Certification unless condition is corrected by installing the appropriate scavenger system.	4106161 SCAVENGER SYSTEM-A/C 4107624 SCAVENGER-OPEN RESERVOIR
25. PEEP device on 22mm terminal of expiratory valve.	D	Issue a departmental alert. Explain to user the danger of attaching device like this to 22mm breathing terminals. Remove PEEP device. Install integrated absorber PEEP with bypass. No certification unless expiratory valve mounted PEEP device is removed.	S4111527 Kit, PEEP Valve w/bypass
27. Ventilator bellows assembly has a PEEP valve assembly.	B	Remove ventilator bellows PEEP valve and convert to absorber PEEP valve with bypass.	S4111527 Kit, PEEP Valve w/bypass

* Denotes a hazard that is substantially diminished by anesthesia machines complying with current applicable standards for components used in anesthesia systems.

CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

5.0 NARKOMED GS

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
30. Anesthesia machine is equipped with inhalation anesthesia vaporizers without an agent monitor in the breathing system.	B	Install an agent monitor, a Vitalert 3000 series patient monitor, or a Vamos patient monitor.	4112020-001 Vitalert 3100 4112020-002 Vitalert 3000 4112020-003 Vitalert 3200 4112020-004 Vitalert 3300 6870750- Vamos monitor
33. No recommendations	A	No recommendations	

* Denotes a hazard that is substantially diminished by anesthesia machines complying with current applicable standards for components used in anesthesia systems.

CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

6.0 NARKOMED MRI

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
14. CO2/Agent monitor exhaust port is not properly connected to waste gas disposal system.	B	Connect monitor exhaust port to waste gas disposal system.	4108114 Adapter 19mm M x F ML08007 Tube 1/4 OD x 48" 4109097 Luer connector F w/barb 4109098 Luer connector M w/barb
18.* No waste gas disposal system.	D	Issue department alert. Recommend installation of appropriate scavenger system. No Certification unless condition is corrected by installing the appropriate scavenger system.	4106161 SCAVENGER SYSTEM-A/C 4107624 SCAVENGER-OPEN RESERVOIR
25. PEEP device on 22mm terminal of expiratory valve.	D	Issue a department alert. Explain to user the danger of attaching device like this to 22mm breathing terminals. Remove PEEP device.	

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CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

6.0 NARKOMED MRI

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
30. Anesthesia machine is equipped with inhalation anesthesia vaporizers without an agent monitor in the breathing system.	B	Install an MRI compatible agent monitor.	
33. No recommendations	A	No recommendations	

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CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

7.0 NARKOMED 6000

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
18.* No waste gas disposal system.	D	Issue department alert. Recommend installation of appropriate scavenger system. No Certification unless condition is corrected by installing the appropriate scavenger system.	4106161 SCAVENGER SYSTEM-A/C 4107624 SCAVENGER-OPEN RESERVOIR

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CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

7.0 NARKOMED 6000

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
33. No recommendations	A	No recommendations	

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CERTIFICATION LEVEL

A. Certified
B. Certified with Recommendations
C. Conditionally Certified
D. No Certification

ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

8.0 NARKOMED MOBILE/MILITARY

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
14. CO2/Agent monitor exhaust port is not properly connected to waste gas disposal system.	B	Connect monitor exhaust port to waste gas disposal system.	4108114 Adapter 19mm M x F ML08007 Tube 1/4 OD x 48" 4109097 Luer connector F w/barb 4109098 Luer connector M w/barb
16.* Vaporizer installed downstream from fresh gas outlet.	D	No Certification unless condition is corrected by removing vaporizer and replacing fresh gas hose.	4108577 HOSE ASM-FRESH GAS
18.* No waste gas disposal system.	D	Issue department alert. Recommend installation of appropriate scavenger system. No Certification unless condition is corrected by installing the appropriate scavenger system.	4106161 SCAVENGER SYSTEM-A/C 4107624 SCAVENGER-OPEN RESERVOIR

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ADDITIONAL RECOMMENDATIONS

I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

8.0 NARKOMED MOBILE/MILITARY

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
30. Anesthesia machine is equipped with inhalation anesthesia vaporizers without an agent monitor in the breathing system.	B	Install an agent monitor, a Vitalert 3000 series patient monitor, or a Vamos patient monitor.	4112020-001 Vitalert 3100 4112020-002 Vitalert 3000 4112020-003 Vitalert 3200 4112020-004 Vitalert 3300 6870750- Vamos monitor
33. No recommendations	A	No recommendations	

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II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

9.0 FABIUS GS

Only the owner of the equipment, with user input, can decide suitability for use within a particular environment. DMI offers the following recommendations for your consideration.

EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
14. CO2/Agent monitor exhaust port is not properly connected to waste gas disposal system.	B	Connect monitor exhaust port to waste gas disposal system.	4108114 Adapter 19mm M x F ML08007 Tube 1/4 OD x 48" 4109097 Luer connector F w/barb 4109098 Luer connector M w/barb
16.* Vaporizer installed downstream from fresh gas outlet	D	No Certification unless condition is corrected by removing vaporizer and replacing fresh gas hose.	
18.* No waste gas disposal system.	D	Issue department alert. Recommend installation of appropriate scavenger system. No Certification unless condition is corrected by installing the appropriate scavenger system.	4106161 SCAVENGER SYSTEM-A/C 4107624 SCAVENGER-OPEN RESERVOIR

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9.0 FABIUS GS

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EQUIPMENT CONDITION	CODE	DMI RECOMMENDATIONS	PART NO. & DESCRIPTION
30. Anesthesia machine is equipped with inhalation anesthesia vaporizers without an agent monitor in the breathing system.	B	Install an agent monitor, a Vitalert 3000 series patient monitor, or a Vamos patient monitor.	4112020-001 Vitalert 3100 4112020-002 Vitalert 3000 4112020-003 Vitalert 3200 4112020-004 Vitalert 3300 6870750- Vamos monitor
33. No recommendations	A	No recommendations	

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I. The system in its present configuration shall only be used with a CO2 monitor. The operator of the system is advised to frequently scan the CO2 readings and alarm thresholds.

II. The present configuration of equipment requires that the unit operate at all times with an oxygen analyzer that includes a low oxygen warning. The operator of the system is advised to frequently scan the oxygen readings and alarm limits.

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